Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

- 1. (Original) An optical submount comprising:
 - a) a substrate;
 - b) a trench in the substrate for holding an optoelectronic device on-edge;
 - c) an electrical connection pit adjoining the trench; and
 - d) a metallization layer in the electrical connection pit.
- 2. (Original) The optical submount of claim 1 further comprising a groove in the substrate adjoining the trench.
- 3. (Original) The optical submount of claim 2 further comprising an optical fiber disposed in the groove.
- 4. (Original) The optical submount of claim 2 wherein the groove is adjacent to the electrical connection pit.
- 5. (Original) The optical submount of claim 2 wherein the groove is perpendicular to the trench.
- 6. (Original) The optical submount of claim 2 wherein the groove and electrical connection pit are disposed on opposite sides of the trench.
- 7. (Original) The optical submount of claim 1 further comprising an optoelectronic device disposed in the trench.
- 8. (Original) The optical submount of claim 7 wherein the optoelectronic device includes a contact pad, and the contact pad is soldered to the metallization layer.
- 9. (Original) The optical submount of claim 7 further comprising a groove in the submount aligned with an active area of the optoelectronic device.
- 10. (Original) The optical submount of claim 1 comprising two electrical connection pits.

- 11. (Original) The optical submount of claim 10 wherein the two electrical connection pits have different depths.
- 12. (Previously Presented) The optical submount of claim 10 wherein the two electrical connection pits are disposed on the same side of the trench.
- 13. (Original) The optical submount of claim 1 wherein the electrical connection pit is at least partially filled with solder.
- 14. (Original) The optical submount of claim 1 wherein the trench is a trench formed by a dicing saw.
- 15. (Original) The optical submount of claim 1 wherein the trench is a trench formed by directional dry etching.
- 16. (Original) The optical submount of claim 1 wherein the substrate comprises <100> silicon, and the electrical connection pit is an anisotropically wet etched pit.
- 17. (Original) The optical submount of claim 1 further comprising a lid disposed over the substrate.
- 18. (Original) The optical submount of claim 1 further comprising an optical waveguide disposed on the substrate, and terminating at the trench.
- 19. (Original) The optical submount of claim 1 wherein the trench does not extend to an edge of the substrate.
- 20. (Original) An optical device, comprising:
 - a) a substrate;
 - b) a trench in the substrate;
 - c) an electrical connection pit adjoining the trench;
 - d) a metallization layer in the electrical connection pit; and
- e) an optoelectronic device disposed on-edge in the trench, wherein the optoelectronic device has a contact pad soldered to the metallization layer.
- 21. (Previously Presented) The optical device of claim 20 further comprising a groove in the substrate adjoining the trench.

- 22. (Previously Presented) The optical device of claim 21 further comprising an optical fiber disposed in the groove.
- 23. (Previously Presented) The optical device of claim 21 wherein the groove is perpendicular to the trench.
- 24. (Previously Presented) The optical device of claim 21 wherein the groove and electrical connection pit are disposed on opposite sides of the trench.
- 25. (Original) The optical device of claim 21 wherein the groove is aligned with an active area of the optoelectronic device.
- 26. (Previously Presented) The optical device of claim 20 wherein the trench is a trench formed by a dicing saw.
- 27. (Previously Presented) The optical device of claim 20 wherein the trench is a trench formed by directional dry etching.
- 28. (Previously Presented) The optical device of claim 20 wherein the substrate comprises <100> silicon, and the electrical connection pit is an anisotropically wet etched pit.
- 29. (Previously Presented) The optical device of claim 20 further comprising a lid disposed over the substrate.
- 30. (Previously Presented) The optical device of claim 20 further comprising an optical waveguide disposed on the substrate, and terminating at the trench.
- 31. (Previously Presented) The optical device of claim 20 wherein the trench does not extend to an edge of the substrate.
- 32. (Currently Amended) The optical device of claim 29 wherein the substrate and the lid comprise silicon, and the <u>lid hermetically seals the optical device</u>.
- 33. (New) The optical device of claim 20, wherein the optoelectronic device is a surface emitting or detecting device.
- 34. (New) The optical device of claim 20, wherein the optoelectronic device has an optical plane in a direction parallel to the surface of the substrate in which the trench is formed.

35. (New) An optical device, comprising:

- a) a substrate;
- b) a trench in the substrate;
- c) an electrical connection pit adjoining the trench;
- d) a metallization layer in the electrical connection pit; and
 - e) an optoelectronic device disposed on-edge in the trench and electrically connected to the metallization layer.